

PB-0009-1 CIP

<110> Walker, Michael G.  
Volkmuth, Wayne  
Klingler, Tod M.  
Azimzai, Yalda

<120> POLYNUCLEOTIDES ASSOCIATED WITH CARDIAC MUSCLE FUNCTION

<130> PB-0009-1 CIP

<140> To Be Assigned

<141> Herewith

<160> 62

<170> PERL Program

<210> 1

<211> 790

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2045674CT1

<400> 1

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| ctgttgctcg | agcccttagc | aatatatacg | taaacatatc | cagcttgtct | aacacatcac  | 60  |
| agattattag | ttaacaaggt | gtagattaat | gagcttatat | tgtattgctg | gatcttttga  | 120 |
| gttaataaca | atggtaactt | gtccagaagg | cctatcatca | ttcctagtag | gtgggacacag | 180 |
| agtaagagat | attaagaagc | ttcctgatga | gtcatcatct | agcgaaggcc | ctgtgtaggg  | 240 |
| ctttattata | ggagttacat | tgacttctgg | ggcattcaaa | ggtctcccct | cttatccata  | 300 |
| tctctgtcat | tttgcccacc | tactaggaat | gatgataggc | tttaataaca | atggtaactt  | 360 |
| gtccagaagg | cctatcatca | ttcctagtag | gtgggcacag | agtaagagat | attaagaagc  | 420 |
| ttcctgatga | gtcatcatct | agcgaaggcc | ctgtgtaggg | ctatgttata | ggagttacat  | 480 |
| tgacttctgg | ggcattcaaa | ggtctcccct | cttatccata | tctctgtcat | tttgcttctc  | 540 |
| cagccacgac | aacacacttt | cctctccaac | tgctccctcc | ccaccaaaaa | agaagaccct  | 600 |
| ctaaaaggca | aaggaataaa | tattcttaga | agtaaagtat | cttcatacat | gctgcctttt  | 660 |
| tcaaagaggt | gtaggatgat | ttatcctatt | tctgtatttc | acagtagctt | ttcaggctgt  | 720 |
| cctgcttatg | tataagctga | tttctcgtgc | cgaattcttg | cctcgagggc | caaattccct  | 780 |
| atatgatcgt |            |            |            |            |             | 790 |

<210> 2

<211> 459

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 188552CT1

<400> 2

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| ggcagcagct | gacatgagtc  | tcagtgccgg | caaacacggc | tggttgaacc | ctgagctagc | 60  |
| ccagctgctt | tggttcacctt | acgtttgggg | aaggctgaaa | ttttattgag | caccgactgt | 120 |
| attccacaca | ctcttctagg  | tgcccgaat  | atgctgttaa | acaaatactc | agccctcatg | 180 |
| gggctgagag | tctgggtggg  | aagacctgtt | gaaaaacaat | catattaaat | gaattgcatt | 240 |
| gcatgttaga | agatcgtaag  | tactctgggg | gaaaatgaga | gtagaacagg | ataagggggg | 300 |

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gatggagggg atgagtgggtg attttaaagt tagttatcag gctgggcaca atggccttaca 360
cctgtaatcc cagcattttg gaaggccaag acgggcaggt cacttgaagt caggagtttg 420
agaccagcct ggccaacatg gtgaaaacct gtctctact 459
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<210> 3  
<211> 517  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 465676CT1

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<400> 3
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cagatagggg taggactgtt agaatagaac caacccaaac tgtgtgtagt ttggggtgta 240
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gccagtttca gctcacttcc tccaggaagt ctttcttgat atatcaaact gaaacaaatg 360
ctctctctcc atgctccctt aatccccatg cttgtcgtatt atattccttt gccaatcat 420
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<210> 4  
<211> 824  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 3601719CB1

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gctatttcag ccacatgaaa agcatcggaa ttgagatcgc agctcagagg acaccgggag 120
ccccttccac cttccaagga gctttgtatt ctgcatctg gctgcctggg acttccctta 180
ggcagtaaac aaatacataa agcagggata agactgcatg aatatgtcga aacagccagt 240
ttccaatggt agagccatcc aggcaaatat caatattcca atgggagcct ttcggccagg 300
agcaggtcaa cccccagaa gaaaagaatg tactcctgaa gtggaggagg gtgttctctc 360
cacctcggat gaggagaaga agccaattcc aggagcgaag aaacttccag gacctgcagt 420
caatctatcg gaaatccaga atattaaaag tgaactaaaa tatgtcccca aagctgaaca 480
gtagtaggaa gaaaaaagga ttgatgtgaa gaaataaaga ggcagaagat ggattcaata 540
gctcactaaa attttatata tttgtatgat gattgtgaac ctctgaatg cctgagactc 600
tagcagaaat ggctgtttg tacatttata tctcttctt ctagtgggt gtatttctta 660
ctttatcttc atttttggca cctcacagaa caaattagcc cataaattca acacctggag 720
ggtgtggttt tgaggaggga tatgatttta tggagaatga tatggcaatg tgcctaacga 780
ttttgatgaa aagtttccca agctacttcc tacagtattt tgggt 824
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<210> 5  
<211> 969  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature

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<223> Incyte ID No: 305781CT1

<400> 5

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ttatgaacac tccccatctt atttttaaaa agaaaaaagt tggggggcag agaaatgcc 180
agctcagtag tgagatccat caagtgaggc cagccggtat ctgtcacacc aggcagaggc 240
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cctcggcctt ctgaatagcc gggattacag gcacctgcca ccacgcctgg ctaatttttg 540
tatttttagt agagaccggg ttttgccatg ttggccacgc tgggtctcaa ctectgacct 600
caggtgatct gccgccttg gcctcccaat ctcttccat ttattagtgt gattgcttaa 660
aaaaaaaaa gactccccga tatgggcagg agcaatgctg attttttact tacctgtctc 720
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gtttcagatt acggtgaact catggactta aacttcttta tgggttttga gccactgcaa 840
ttatcctcac caaatctcaa gctgtcccac ctctggcacg tggggcctct tcaagttttc 900
ctcattcata tttgtttgtc tgtttggtgt ttttgggtgg ccagcaggag agcatccaca 960
gtctgtctc 969
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<210> 6

<211> 597

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 971441CT1

<400> 6

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gggtctacatt ttcacacctt ctgggttccta ttcttctcct gattggctgg attgtgggct 120
gcatcataat gatttatgtt gtcttctctt agaaaggcaa gaagatatca gattgacatc 180
attagaaga attaagaaaa ctatgaacat gactgattat taaatgtctc atgttaaaca 240
atgcaatgtt tgacatcact ttacaaactt ggatcataaa ctggcacttt ggtatgcata 300
agaatttctt caggacaata agaaattatg agtgaatttc tctatattct gagtgagaaa 360
aatgttttagc tgtgatgaaa aatgcatgtc attaaaaaaa gtttgataaa tttaatcaca 420
ttacaaaaaa ttatcccccc ttccctctgg aaaaaactat agagaaagtg ggctgagggt 480
gtgcaagggt gctcatgcct gtaatcccag cactttgtga ggatcctttg agcccagaaa 540
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<210> 7

<211> 1918

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3445829CB1

<400> 7

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tccttctggg tctgacaaaag cagggaccat gtctaccttt ggctaccgaa gaggactcag 120
taaatacgaa tccatcgacg aggatgaact cctcgcctcc ctgtcagccg aggagctgaa 180
ggagctagag agagagttgg aagacattga acctgaccgc aaccttcccc tggggctaag 240
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gcaaaagagc ctgacagaga aaacccccac agggacattc agcagagagg cactgatggc 300
ctattgggaa aaggagtccc aaaaactctt ggagaaggag aggctggggg aatgtggaaa 360
ggttgcagaa gacaaagagg aaagtgagga agagcttatc tttactgaaa gtaacagtga 420
ggtttctgag gaagtgtata cagaggagga ggaggaggag tcccaggagg aagaggagga 480
agaagacagt gacgaagagg aaagaacaat tgaaactgca aaagggatta atggaactgt 540
aaattatgat agtgtcaatt ctgacaactc taagccaaag atattttaaaa gtcaaataga 600
gaacataaat ttgaccaatg gcagcaatgg gaggaacaca gagtccccag ctgccattca 660
cccttggtga aatcctacag tgattgagga cgctttggac aagattaaaa gcaatgacct 720
tgacaccaca gaagtcaatt tgaacaacat tgagaacatc acaacacaga cccttaccgc 780
ctttgctgaa gcctcaagg acaacactgt ggtgaagacg ttcagtctgg ccaacacgca 840
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tattctaaag gaaataaaaa attctctgag gtcagtgcac gagaagaaaa tggaagacag 1620
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aaagtaaatg agttgtcctc cattgcatgg ttgtaccaaa gtcacctctc acaatactta 1800
tcaatacttt caatatttta gtatgcgaga gcaaacacac caagtttgaa acattaggag 1860
caggcacaca agtgagcaca tttctatttg agaggaacgc ctgggcccgt ttcccagg 1918

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&lt;210&gt; 8

&lt;211&gt; 1079

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 189299CT1

&lt;400&gt; 8

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tgcaccttga aacagctctg catcctctac ctgggcaaca acaaactctg cgacctcccc 180
agtgagctga gcctgtctca gaacctcagg accctgtgga tcgaggccaa ctgcctcacc 240
cagctgccgg atgtggtctg tgagctgagt ctcttaaga ctctgcatgc cggctccaac 300
gccctgcgtt tgctgccagg ccagctccgg cgcctccagg agctgaggac catctggctc 360
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attgatgtgg actggaacag catccgttac ttccccagcc tggcgccact gtcaagtctg 480
aagctggcca tctatgacca caatccttgc aggaacgcac ccaaggtggc caaaggtgtg 540
cgccgtgtgg ggagatgggc agaggagacg ccagagcccg accctagaaa agccaggcgc 600
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accaactcct gaggagcttc agttgcaagt caatgccaaag gacccaactg cagcatgttc 720
tggaagcctc tccattggag tggaaaggat ggctctgggt catttgggag tggctctgct 780
agtagagact gatggagaga gccaggtgga atgccataaa tcacactgag aaaatatttc 840
tggaacacag ctctctcttc agaggggagt tgtgtgcccc atgatggcat gacaaatcca 900
gagatcataa cttcctttgc gaagaagaac agctcgtcca cagcattgta tttttggaga 960
cacttgaaag agccaaaaga ggggcttggg aaacatcctg aaacctccct ggaagtctct 1020

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<211> 1028

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2396760CT1

<400> 9

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| accaggacaa  | cggagcgat   | tgaccgttat  | ctgcggtttg  | gagccgttag | cgggagagggc | 120  |
| agagatatth  | agaggctctt  | taggatgtgc  | taaagggctc  | tgagggctct | cttaaaatth  | 180  |
| tcttcacaag  | cggttatcca  | gtcgtgcccc  | gcggccctgc  | tgctggcccc | ggggatctga  | 240  |
| gtcgtaccct  | cttgthtttc  | tctgagtcag  | tcttaagggtg | aatgaagtg  | tggcccagtg  | 300  |
| gctcctcact  | gtcgtctctc  | tagthttctg  | cctcctthta  | gaaaattgaa | ttgaaaagac  | 360  |
| aggatgaagt  | ggacacagca  | tgtgaagaca  | attctthcaa  | gaagthtggc | tgtcaaggaa  | 420  |
| aacagagaat  | gtgctaaaga  | acatacagac  | acagagcaga  | caggccacct | ttgcaaccac  | 480  |
| atggaggtth  | gtctgatatt  | gaagctaaag  | aagctaagct  | ggaagacaga | gagaccaagt  | 540  |
| cctgatgaca  | ttgthtgaac  | ccagagatcc  | agacatgcct  | gaaaactagt | thtaccactg  | 600  |
| gacttatccg  | ttgaatgagc  | caataaaactc | tctthttatac | ttaaccttgg | gthtttacctg | 660  |
| gattthttgtc | attgacagct  | caaaatattc  | taatatagaa  | gtatacatca | ttaaatcaac  | 720  |
| atthctthtt  | thctctgtct  | tattthaaat  | gtaactctat  | aaggthctct | aaaagthattc | 780  |
| tacagthctca | ctaagthaat  | ctgcaaath   | ggtaaaattc  | caatathaat | cccaaaagta  | 840  |
| ththtaagagc | ttgthtttgt  | tgthttgttg  | thtgggacta  | aacagaatta | ctccaaaatt  | 900  |
| cattgagaga  | aaaaaaaaaac | atgaaaaaaaa | aaacaagaaa  | atagaattca | taaaaggaaa  | 960  |
| ttgtattata  | taacaaagca  | taaaacaaga  | ataataaaca  | tagagthggt | atggaataaa  | 1020 |
| tagaacac    |             |             |             |            |             | 1028 |

<210> 10

<211> 1149

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 919893CT1

<400> 10

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| tcgtthctcac | tgagcacgat  | attaggctct  | ctcccaactc  | actctattct | gtcctcactc  | 60  |
| ctgtthttgat | ththctcttg  | ccatgtthga  | aatgtthttat | gggaatgtat | tagaactctt  | 120 |
| thctthctaag | gactgagact  | tccaggggat  | tgccatctta  | cctgtctctt | ctccatgagg  | 180 |
| gagaaggaag  | cagctagcta  | tgtccctagc  | tgagggaagc  | ccctathttt | tccaagcacg  | 240 |
| aagccaccag  | tctccccag   | ggagcatcag  | gaagggacat  | ggatgtgtct | ctgccacagg  | 300 |
| gccctthcta  | cctthtgatc  | tgtgagaagg  | tgaatacaaa  | gcagcaggca | gagtaaaatc  | 360 |
| tgctgggact  | gcctggagat  | ttgtcaggag  | ctgcagacaa  | gtaccttgga | gcattctgtt  | 420 |
| atthttggaa  | agthcaaata  | tgaggggaca  | aggaggttgc  | tgactgtact | gacaggctct  | 480 |
| aagthctthtt | ctccaaaaac  | tatctattca  | attatcaggg  | gctggtcttg | aggaaggaaa  | 540 |
| aaaaaaaaaaa | acgtthcccag | aattcagtht  | ccaaaatctc  | ththtaagg  | gthttacacac | 600 |
| acacacacac  | acacacacac  | acacacacac  | acacacacac  | gatcathaaa | aagthgtatgc | 660 |
| ththtaagaa  | gaaaagtaaa  | atatctcaaa  | ggacggttht  | accaccgtcc | thtattgaa   | 720 |
| caaththttct | acaththcaga | gcaagthtag  | attctgaggg  | actcctattt | gccccaaaaga | 780 |
| caaaactagc  | aaaaaaaaaaa | acaaaaaaac  | aaaaaaaaaaa | ccactthaaa | ggtagcagga  | 840 |
| aaagaaggta  | gththtgagt  | tggtthcactc | agthgtctgtg | agthgtggtg | agthgtcagga | 900 |

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gtaaggccgt gtctagctca agtttacatt tggatgtcct acaacactaa acaaaatttt 960
tcataatcca tgggtggggag cacacttttg agctacattt cttgtctcct cattgttgac 1020
attaattaaa catttatagg ccaggcacag tggctcacgc ctgttatccc agcacttttg 1080
gaggccgagg caggtgaatc acctgaggtc aggagtttga aaccagcctg gccaatatgg 1140
tgaaaccca                                     1149
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<210> 11

<211> 1467

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2837330CB1

<400> 11

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ccatactcag ttggctgaca cctctaaatt ccttggttaa attccagaag aatcaagtga 180
taagagtcca gaaactgtaa ataggtctaa atccaatgac tacttgacct tgaatgctgg 240
gagccaacaa gagagagacc aagcgaaatt gacttgtcct tcagagggtca gtggaacgat 300
tttacaagaa agggaattcg aagcaaacaa acttcaaggg atgcagcaaa gtgacctctt 360
caaagctgaa tatgtcctta ttgtggactc gcaccgcagc tgtccggccc aagtctctag 420
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agacctcatc acatcctgaa atgcttcatg ggatggcccc tcagcaaaag catgggcagc 600
aatacaagac caagtcaagc tacaaggctt ttgcagcatt ccttacaac acattgcttt 660
tggaacagaa gactcctaca actcttccaa gagcagctgg tcgagaaacc aaatatgcaa 720
atctctcctc accaacttct acagtatctg agagtcagct gactaagcct ggagtaattc 780
gcccagtacc tgtaaaatcc agaataattac tgaaaaaaga ggaggaagtc tatgaaccca 840
accctttcag taaatacttg gaagataaca gcgacctctt ttctgaacag gatgtaacag 900
tccctcccaa gcctgtctcg ctccatcctt tatatcagac taaactctat cctcctgcta 960
agtcactgct gcatccacag accctctcac atgctgactg tcttgcccc ggaccttca 1020
gtcatctgtc cttctccttg agtgatgaac aggagaattc tcacacctc ctcagtcaca 1080
acgcatgcaa caagctgagt catccaatgg tggctattcc tgaacatgaa gctcttgatt 1140
ccaaagagca atgaagttgg agcagaggct gaaaacacag gctgctgaag ttttttggaa 1200
tgctggtgct aaccacttgc tagatttaac tttttttttt tttccagaa tgagtgtcc 1260
ctttatgagt gcagtgcagc agaaccaaaa aaaaagtttg ctgcaattat atagcatcac 1320
agtgtctctg taacagccag catagaagag atttacctac agctttttgc accactgttc 1380
tagcctttaa tgccttctac ttaatatata gctgaccgca atactaacgt gccctatat 1440
ttggcagcca aataaagaag aatcgtg                                     1467
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<210> 12

<211> 1691

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1737459CB1

<400> 12

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aggtagaag acccctgagc ggatggattc attcattttc tgaatttct atgtgaggac 180
agtattagag cccagtgagg ctttgagagg ccccaaagat gagcgccaac agtagcagag 240
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tgggccagct tctcttgacg ggttcagcgt gcattaggtg gaagcaggat gtggaagggg 300
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&lt;210&gt; 13

&lt;211&gt; 2379

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 058201CB1

&lt;400&gt; 13

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&lt;210&gt; 14

&lt;211&gt; 1904

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 767447CT1

&lt;400&gt; 14

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PB-0009-1 CIP

|            |          |          |          |          |          |      |
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| tattgactat | acatatat | aaaatata | ttatccag | gatgtttg | tttgtctt | 1560 |
| tttcttgcc  | acctcggt | cctatttt | aagctggg | gttaacta | ttaacaaa | 1620 |
| atgcttag   | tttgtaaa | aacaagt  | tcattttt | aagacact | aaatgat  | 1680 |
| tacttgatt  | tctcgag  | tttaact  | gtgatga  | acaggact | ctttcaa  | 1740 |
| ttaataaat  | taaaatg  | tttaatg  | atacag   | gtgttttc | catgaat  | 1800 |
| aaccaatt   | caatttg  | tccagtc  | attggta  | actgatt  | ataaagt  | 1860 |
| tttatttt   | aatattaa | aaaaaaaa | aaaaaaaa | aaaa     |          | 1904 |

<210> 15

<211> 968

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 5449893CB1

<400> 15

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| agggccct  | attccctc  | ggacaccc | cacccaccc | acacactg | atgaacc  | 120 |
| gcagagga  | aattcaga  | gtcacaca | ccaggacca | aatccgta | cacaaag  | 180 |
| gtccgtcag | gccagcac  | ccccccgg | aatcaagc  | ctgtccc  | gggcaa   | 240 |
| tctctgcag | catctgct  | catcaggg | gcagcccca | ggcagcag | ctgggag  | 300 |
| ctctcatct | cgagaata  | ctctgaag | agcgacct  | cggaacct | tcatcagg | 360 |
| gcctgtcag | ggaggggc  | tgactctg | ggacaagc  | gcaggct  | taagtttc | 420 |
| aaggctggg | tccactcag | tcttttcc | cagctgct  | ctgccaga | ggcgcttc | 480 |
| gagaccag  | gcttacac  | taccacac | gtcccagg  | ggtgctc  | aagccct  | 540 |
| caagaaga  | cgccccct  | tgaaggag | ggacctga  | ggggcccg | gaaacct  | 600 |
| caagaacc  | gaaatcaa  | ccaagacc | ccaggctc  | cgagagt  | agcaag   | 660 |
| ctcggccg  | ccgtcgtg  | tcagccgc | ccgcacag  | accgag   | tctttg   | 720 |
| gcccgaag  | ggaccacca | agagtgt  | cggtgaga  | gtgtgcgc | ctcccc   | 780 |
| tgcccga   | ctcggaac  | ggagcct  | ccaggact  | tttttat  | cagaac   | 840 |
| cctctccc  | gctgtct   | gggtgcc  | cctcccc   | agtccag  | cttcag   | 900 |
| gggctctg  | ccagcac   | ggaagcac | ataaagag  | tgcccac  | gcccag   | 960 |
| aaaaaaa   |           |          |           |          |          | 968 |

<210> 16

<211> 1112

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2951269CT1

<400> 16

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| tgtagcact | gctaattg  | gccttaag  | tgaatcta | cagaattg | gactcgg  | 120 |
| ctctgggaa | aaaacatg  | cgtctgtg  | acgtgtg  | actaggcc | ggggaag  | 180 |
| ctgaaaatt | aattcttt  | tgtgtcct  | gtctcaga | agaactga | gttcagag | 240 |
| gcgtttgta | gctatta   | ttcagtatt | cgtgttg  | ctagaaca | ttattaga | 300 |
| tattcctgt | taattcata | tggtgcag  | taaaacac | acatctga | tgatttct | 360 |
| ttctttttt | aagtttc   | attgcttt  | atggctag | ttaatgg  | aaagtcct | 420 |
| ccagggtcc | ctgaata   | taccata   | gtatccat | caggatg  | ttttttt  | 480 |
| ccccacttt | aagacgtg  | tttctgt   | tacacata | tcatact  | gtatatta | 540 |
| gacagcagt | gttgaaaa  | atgtgaac  | tgtagaag | atgttgg  | aaaggaga | 600 |

PB-0009-1 CIP

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ggaaaagttc ctacctgagg tctgatatga ttcaattata gaatgcaatg agcttggcca 780
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tcagtgcatt gaatatggag taaactattt agacaaggat tctgtgagac taggctactt 900
acctttaatt gccagcattt gtaaattgatt gtgcaatctt gtgtaattgg cttttatttt 960
gactgttttg gaaaaaaaaa gttttattgt ttttttttcc cagtaaaaaa tacttcaaag 1020
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<210> 17

<211> 1714

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 282977CB1

<400> 17

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<210> 18

<211> 806

<212> DNA

<213> Homo sapiens

<220>

PB-0009-1 CIP

<221> misc\_feature

<223> Incyte ID No: 3178454CB1

<400> 18

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aataaataaa taaaattaaa aaaaat 806
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<210> 19

<211> 555

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3563859CT1

<400> 19

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<210> 20

<211> 1159

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 985730CT1

<400> 20

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PB-0009-1 CIP

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<210> 21

<211> 878

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3684987CT1

<400> 21

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<210> 22

<211> 667

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 986166CT1

<400> 22

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cactcttctt gtttcccttt ccagttctca cgttgactca aggaacaacg tgtgaaatga 240
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gttcagcatt tggcttggga aaaatgacac tatttctgt ctcttaaca ttatttcaag 480
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<210> 23

<211> 1421

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<220>

<221> misc\_feature

<223> Incyte ID No: 1887508CT1

<400> 23

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<210> 24

<211> 2630

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1006416CT1

<400> 24

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&lt;210&gt; 25

&lt;211&gt; 1039

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 975169CT1

&lt;400&gt; 25

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<211> 1057

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 4152861CB1

<400> 26

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<210> 27

<211> 1363

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 986464CT1

<400> 27

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<210> 28

<211> 1513

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 118472CT1

<400> 28

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aaaaaaaaaaaa aaa 1513

<210> 29  
<211> 627  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 1314633CT1

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<213> Homo sapiens

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<210> 31

<211> 2184

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<213> Homo sapiens

<220>

<221> misc\_feature

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PB-0009-1 CIP

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&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;400&gt; 36

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PB-0009-1 CIP

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<223> Incyte ID No: 5022769CT1

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PB-0009-1 CIP

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<213> Homo sapiens

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<210> 39

<211> 1918

<212> DNA

<213> Homo sapiens



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&lt;223&gt; Incyte ID No: 3445829CB12

&lt;400&gt; 39

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&lt;210&gt; 40

&lt;211&gt; 1086

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 3016490CT1

&lt;400&gt; 40

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&lt;211&gt; 3441

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 4151935CB1

&lt;400&gt; 41

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&lt;213&gt; Homo sapiens

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PB-0009-1 CIP

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<220>  
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ctttactttg tagcactttt gactaatgtt atctaaggac tgtatcaaag aattgggttc 780  
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gaaactgaaa ttaa 854

<210> 44  
<211> 714  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 3012947CB1

<400> 44  
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gccgctaaat atatcccaag ccctggaaat ggcattggaa cagaaggaaat tagaccagga 180  
acctggggca ggacttgaca gtctgatccg gactgggtcc agctgccaga acccaggatg 240  
tgatgctgtt taccaaggcc ctgagagtga tgctactcca tgtacctacc acccaggagc 300  
accccgattc catgagggga tgaagtcttg gagctgttgt ggcattccaga ccctggattt 360  
tggggcattc ttggcacaac cagggtgcag agtcggtaga catgactggg ggaagcagct 420  
cccagcatct tgccgccatg attggcacca gacagattcc ttagtagtgg tgactgtata 480  
tgccagatt ccacttcctg cgtttaactg ggtgaaggcc agtcaaactg agcttcattg 540  
ccacattgtc tttgatggta accgtgtgtt ccaagcacag atgaagctct ggggggtaag 600  
tgaagaccag gggacacaag agtgggaggc agatgggtga aagagcggct agactggaat 660  
agaggggtgc ttgaggggaag gagttgtact aggaaaatgg aggttttctc ttca 714

<210> 45  
<211> 1434

PB-0009-1 CIP

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 466761CT1

<400> 45

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tcctcaagca agtgggaaat cggaaaagaa aaggacaggc attgtaggga agcagaggat 180
aaagaattta gccacaacaa gaaacaatct agtcaatctg ggtgctttta tttcctgggt 240
actctctaaa catggctcag agctggtgta gatgaagtag gtgaaacctc tgaaaagagt 300
ctagaaggca gtagagcaag tcccagacca gaaacatgct catcttttca tcgtaatgtg 360
ccactcggtg ctatttggtg atgtcactct atttttccta atcccatcct ttggtttgta 420
tttcataatt gtatataagg caccattttc taaaaatatg actagggtgt gacctaaagt 480
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agagttgtcc aggtggtagt tcgacgtgtt ttgaatctag tccttcctac atggaggata 600
aaagctccta aagtccactc tgggtttgtg attttaatag aaatagaaag ggaaactata 660
gaccaatgga gatgaaaatc aggggctatc gacagatgga ggagaaataa ggtgctacat 720
agagaaagga agagggcaga aggctttccc ttcccaaact ggggtgagctg gggaagcctt 780
ggttcaggag agtggcactg cccacaactg ctttgtgggt tgtgcacttc cagccgcact 840
ctccccctcc agttgctgcc ttcagagccg tactgaagca cgagcttcaa taagacaagc 900
acacttcata gtgagaggcg agcggtagca aagcctttca gagagactat ggattagaca 960
gaaatgattt gtgagaggaa gctggagtga acagcatgaa cagcgagtgt tacctgacag 1020
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tgtgtacaca gggagggagg atgtctatgg gcagagccct tgggtgagtat catcaccaag 1140
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caaaggaaaa agtgaaaagc aaggtggaac ttgaagatac gtcacgaaaa tctactataa 1320
agtctgattt atgtgtgatg tcaaatacaa ctgaaatgaa gaatgagatt gagtatatct 1380
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<210> 46

<211> 2298

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1644171CT1

<220>

<221> unsure

<222> 2159, 2169-2170, 2223-2245, 2248-2272, 2275-2277, 2279-2295

<223> a, t, c, g, or other

<400> 46

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gggattacag gcatgagctg ccgcacccgg cctccacctg ggttttgagc caatcccctg 120
gacttgctcc tggtttcctc aaggggtggg gcagtggttt aggacactcg acaactaaga 180
acaggagttc ccaggaagga caaggatctg catccccac tgccacttct ctgatgtgtt 240
cctcaaagct ggctcgaggg ctcgatccct tcatcggact caggagggga ctggttggtg 300
tatccaggta atttactctt ggaagtgact gtagtgaagg tcgtggaagg gctcagaggg 360
ttaattgggt tgcagtgcgt ctttgtctat tgcagtctt ggaaaactca gatcccaaag 420
gcgctggggt tcagagagga cagtggagac cttgtctcct ttccttaggc cgccagtcct 480
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tcaaatttca gaggaggctg tttccacaac tcccctatgg aaacacttgg cagcggagtt 540
gctcctttgc agtttccaca ccatggcttt tcccttccct tcttctccat tccctgatgc 600
atcaacactt acttggagca atttccctagg agtcagaacc agcaccagcc actcgggtgc 660
ggtggccacc aaggcttaac attgaccttc ccgcctgacc ttgatgcaga tgtccactga 720
acaacccgca ggaaagccag ggccttcaat accaataagt gtgaatatgt gtgtatgttg 780
tccaagagag attagggaga tcacatagac tctagggagt agagaacttg taacagtctt 840
gcaaggctag catgcacggc tccacagcag gtggtgggga gcagaggggc aggacctgca 900
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agaccagcc cgggctgcct cgaggggctc ctttgtacac agccagccgc ttctcttggg 1020
aacaagctgt cctgggggccc ttacccacga ggcaggagtc aggatgcacc agctcagcac 1080
caggaagtca tcttggaacc aggacagtgg aaaggcaggc agagggagag gactctgtag 1140
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cttaatgatc cagagattcc cccaagagga gtgtctggaa ggatctgtgc ctggacagtg 1980
gcagaacctt tccagtgttc ttttggttct gatttcatca gtctcaataa agttccgatc 2040
tctctttaaa aaaaaaaaaa acaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agacaaaaaa 2100
aaaaaagggg gcccccaaaa agggggggga ccccgcccca agcgcgaaag cgcctcaana 2160
gctttccenn gaaaaaattt ttcccccccc aaaattccag cccgctgggt gagtcgctg 2220
tcnnnnnnnn nnnnnnnnnn nnnnnctnnn nnnnnnnnnn nnnnnnnnnn nnggnnnenn 2280
nnnnnnnnnn nnnnnccc

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&lt;210&gt; 47

&lt;211&gt; 728

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 3009806CB1

&lt;400&gt; 47

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agtgggtttt gacagccttg ttaattttgt gtgccacacc tgcttcaaga ggcaggagaa 180
gctccatcgc tgtgggcagt gcaagtttgc ccattactgc gaccgcacct gccagaagga 240
tgcttggtctg aaccacaaga atgaatgttc ggccatcaag agatatggga aggtgcccga 300
tgagaacatc aggctggcgg cgcgcatcat gtggagggtg gagagagaag gcaccgggct 360
cacggagggc tgccctggtg ccgtggacga ctgacagaa cacgtggagc actttgggga 420
ggaggagcag aaggacctgc gggtggaagt ggacacattc ttgcagtact ggccggcgca 480
gagccagcag ttcagcatgc agtacatctc gcacatcttc ggagtgatta actgcaacgg 540
ttttactctc agtgatcaga gaggcctgca cagcgtgggg cgtaaggatc tttccccacc 600
tggggctggt gaaccatgac tgttggccca actgtaactg gcaaatttta caatgggcat 660
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ccttaggg

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<210> 48  
<211> 1158  
<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 5578191CB1

<400> 48

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gctgcccattg gacttgctgg tgctggagga tgagaagcac cacggggctc agagtgcagc 180
cctgcagaag gtgaagggcc aagagcgcgt gcgcaagacg tccctggacc tgcggcgagg 240
gatcatcgat gtgggcggga tccagaacct catcgagctg cggaagaaac gcaagcagaa 300
gaagcgggac gctctggccg cctcgcatga gccgccccca gagcccgagg agatcactgg 360
ccctgtggat gaggagacct tcctgaaagc tgcggtggag gggaaaatga aggtcattga 420
gaagttcctg gctgacgggg ggtcagccga cacgtgcgac cagttccgctc ggacagcact 480
gcaccgagct tccctggaag gccacatgga aatcctggag aagcttctag ataatggggc 540
cactgtggac ttccaggatc ggctggactg cacagccatg cattgggcct gccgcggggg 600
ccacttagag gtggtgaaac ttctgcaaag ccatggagca gacaccaatg tgagggataa 660
gctgctgagc accccgctgc acgtggcagt ccggacaggg caggtggaga ttgtggagca 720
ctttctatcc ctgggcctgg aaatcaatgc cagagacagg gaaggggata ctgccctgca 780
tgacgctgtg aggctcaacc gctacaaaat catcaaactg ctgctcctgc atggggctga 840
catgatgacc aagaacctgg caggaaagac cccgacggac ctggtgcagc tctggcaggc 900
tgatacccg cagccctgg agcatcctga gccgggggct gagcataacg ggctggaggg 960
gcctaataat agtgggcgag agaccctca gcctgtgcca gccagtgaa tgcgtgcccc 1020
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cggagctaac tgagggccca gccttttttc tgcattgatcc aggagcacat accacaaact 1140
accacaataa aaaagctg                                     1158
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<210> 49

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3601719CD1

<400> 49

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Phe Gly Gln Glu Gln Val Asn Pro Pro Glu Glu Lys Asn Val Leu
          20          25          30
Leu Lys Trp Arg Arg Val Phe Leu Pro Pro Arg Met Arg Arg Arg
          35          40          45
Ser Gln Phe Gln Glu Arg Arg Asn Phe Gln Asp Leu Gln Ser Ile
          50          55          60
Tyr Arg Lys Ser Arg Ile Leu Lys Val Asn
          65          70
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<210> 50

<211> 552

<212> PRT

<213> Homo sapiens

PB-0009-1 CIP

<220>

<221> misc\_feature

<223> Incyte ID No: 3445829CD1

<400> 50

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ser | Thr | Phe | Gly | Tyr | Arg | Arg | Gly | Leu | Ser | Lys | Tyr | Glu | Ser |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Ile | Asp | Glu | Asp | Glu | Leu | Leu | Ala | Ser | Leu | Ser | Ala | Glu | Glu | Leu |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Lys | Glu | Leu | Glu | Arg | Glu | Leu | Glu | Asp | Ile | Glu | Pro | Asp | Arg | Asn |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Leu | Pro | Val | Gly | Leu | Arg | Gln | Lys | Ser | Leu | Thr | Glu | Lys | Thr | Pro |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Thr | Gly | Thr | Phe | Ser | Arg | Glu | Ala | Leu | Met | Ala | Tyr | Trp | Glu | Lys |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Glu | Ser | Gln | Lys | Leu | Leu | Glu | Lys | Glu | Arg | Leu | Gly | Glu | Cys | Gly |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Lys | Val | Ala | Glu | Asp | Lys | Glu | Glu | Ser | Glu | Glu | Glu | Leu | Ile | Phe |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Thr | Glu | Ser | Asn | Ser | Glu | Val | Ser | Glu | Glu | Val | Tyr | Thr | Glu | Glu |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Glu | Glu | Glu | Glu | Ser | Gln | Glu | Glu | Glu | Glu | Glu | Glu | Asp | Ser | Asp |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Glu | Glu | Glu | Arg | Thr | Ile | Glu | Thr | Ala | Lys | Gly | Ile | Asn | Gly | Thr |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Val | Asn | Tyr | Asp | Ser | Val | Asn | Ser | Asp | Asn | Ser | Lys | Pro | Lys | Ile |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Phe | Lys | Ser | Gln | Ile | Glu | Asn | Ile | Asn | Leu | Thr | Asn | Gly | Ser | Asn |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Gly | Arg | Asn | Thr | Glu | Ser | Pro | Ala | Ala | Ile | His | Pro | Cys | Gly | Asn |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Pro | Thr | Val | Ile | Glu | Asp | Ala | Leu | Asp | Lys | Ile | Lys | Ser | Asn | Asp |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Pro | Asp | Thr | Thr | Glu | Val | Asn | Leu | Asn | Asn | Ile | Glu | Asn | Ile | Thr |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Thr | Gln | Thr | Leu | Thr | Arg | Phe | Ala | Glu | Ala | Leu | Lys | Asp | Asn | Thr |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Val | Val | Lys | Thr | Phe | Ser | Leu | Ala | Asn | Thr | His | Ala | Asp | Asp | Ser |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Ala | Ala | Met | Ala | Ile | Ala | Glu | Met | Leu | Lys | Val | Asn | Glu | His | Ile |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| Thr | Asn | Val | Asn | Val | Glu | Ser | Asn | Phe | Ile | Thr | Gly | Lys | Gly | Ile |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Leu | Ala | Ile | Met | Arg | Ala | Leu | Gln | His | Asn | Thr | Val | Leu | Thr | Glu |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |
| Leu | Arg | Phe | His | Asn | Gln | Arg | His | Ile | Met | Gly | Ser | Gln | Val | Glu |
|     |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |
| Met | Glu | Ile | Val | Lys | Leu | Leu | Lys | Glu | Asn | Thr | Thr | Leu | Leu | Arg |
|     |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     | 330 |
| Leu | Gly | Tyr | His | Phe | Glu | Leu | Pro | Gly | Pro | Arg | Met | Ser | Met | Thr |
|     |     |     |     | 335 |     |     |     |     | 340 |     |     |     |     | 345 |
| Ser | Ile | Leu | Thr | Arg | Asn | Met | Asp | Lys | Gln | Arg | Gln | Lys | Arg | Leu |
|     |     |     |     | 350 |     |     |     |     | 355 |     |     |     |     | 360 |
| Gln | Glu | Gln | Lys | Gln | Gln | Glu | Gly | Tyr | Asp | Gly | Gly | Pro | Asn | Leu |
|     |     |     |     | 365 |     |     |     |     | 370 |     |     |     |     | 375 |
| Arg | Thr | Lys | Val | Trp | Gln | Arg | Gly | Thr | Pro | Ser | Ser | Ser | Pro | Tyr |



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|                 |                     |                     |     |  |     |
|-----------------|---------------------|---------------------|-----|--|-----|
|                 | 380                 |                     | 385 |  | 390 |
| Val Ser Pro Arg | His Ser Pro Trp Ser | Ser Pro Lys Leu Pro | Lys |  |     |
|                 | 395                 |                     | 400 |  | 405 |
| Lys Val Gln Thr | Val Arg Ser Arg Pro | Leu Ser Pro Val Ala | Thr |  |     |
|                 | 410                 |                     | 415 |  | 420 |
| Pro Pro Pro Pro | Pro Pro Pro Pro Pro | Pro Pro Pro Pro Ser | Ser |  |     |
|                 | 425                 |                     | 430 |  | 435 |
| Gln Arg Leu Pro | Pro Pro Pro Pro Pro | Pro Pro Pro Pro Leu | Pro |  |     |
|                 | 440                 |                     | 445 |  | 450 |
| Glu Lys Lys Leu | Ile Thr Arg Asn Ile | Ala Glu Val Ile Lys | Gln |  |     |
|                 | 455                 |                     | 460 |  | 465 |
| Gln Glu Ser Ala | Gln Arg Ala Leu Gln | Asn Gly Gln Lys Lys | Lys |  |     |
|                 | 470                 |                     | 475 |  | 480 |
| Lys Gly Lys Lys | Val Lys Lys Gln Pro | Asn Ser Ile Leu Lys | Glu |  |     |
|                 | 485                 |                     | 490 |  | 495 |
| Ile Lys Asn Ser | Leu Arg Ser Val Gln | Glu Lys Lys Met Glu | Asp |  |     |
|                 | 500                 |                     | 505 |  | 510 |
| Ser Ser Arg Pro | Ser Thr Pro Gln Arg | Ser Ala His Glu Asn | Leu |  |     |
|                 | 515                 |                     | 520 |  | 525 |
| Met Glu Ala Ile | Arg Gly Ser Ser Ile | Lys Gln Leu Lys Arg | Val |  |     |
|                 | 530                 |                     | 535 |  | 540 |
| Ser Asn Gln Arg | Thr Asp Ile Gly Ala | Gln Ile Lys         |     |  |     |
|                 | 545                 |                     | 550 |  |     |

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<211> 260

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 2837330CD1

<400> 51

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| 1                   | 5                   | 10                  | 15  |
| Glu Lys Leu Asn Lys | Ala Pro Gln Gly Gly | Ile Gly Thr Ala Ala |     |
|                     | 20                  | 25                  | 30  |
| Val Arg Pro Lys Ser | Leu Ala Ile Ser Ser | Ser Leu Val Ser Asp |     |
|                     | 35                  | 40                  | 45  |
| Val Val Arg Pro Lys | Thr Gln Gly Thr Asp | Leu Lys Thr Ser Ser |     |
|                     | 50                  | 55                  | 60  |
| His Pro Glu Met Leu | His Gly Met Ala Pro | Gln Gln Lys His Gly |     |
|                     | 65                  | 70                  | 75  |
| Gln Gln Tyr Lys Thr | Lys Ser Ser Tyr Lys | Ala Phe Ala Ala Phe |     |
|                     | 80                  | 85                  | 90  |
| Pro Thr Asn Thr Leu | Leu Leu Glu Gln Lys | Thr Pro Thr Thr Leu |     |
|                     | 95                  | 100                 | 105 |
| Pro Arg Ala Ala Gly | Arg Glu Thr Lys Tyr | Ala Asn Leu Ser Ser |     |
|                     | 110                 | 115                 | 120 |
| Pro Thr Ser Thr Val | Ser Glu Ser Gln Leu | Thr Lys Pro Gly Val |     |
|                     | 125                 | 130                 | 135 |
| Ile Arg Pro Val Pro | Val Lys Ser Arg Ile | Leu Leu Lys Lys Glu |     |
|                     | 140                 | 145                 | 150 |
| Glu Glu Val Tyr Glu | Pro Asn Pro Phe Ser | Lys Tyr Leu Glu Asp |     |
|                     | 155                 | 160                 | 165 |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asn | Ser | Asp | Leu | Phe | Ser | Glu | Gln | Asp | Val | Thr | Val | Pro | Pro | Lys |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Pro | Val | Ser | Leu | His | Pro | Leu | Tyr | Gln | Thr | Lys | Leu | Tyr | Pro | Pro |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Ala | Lys | Ser | Leu | Leu | His | Pro | Gln | Thr | Leu | Ser | His | Ala | Asp | Cys |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Leu | Ala | Pro | Gly | Pro | Phe | Ser | His | Leu | Ser | Phe | Ser | Leu | Ser | Asp |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Glu | Gln | Glu | Asn | Ser | His | Thr | Leu | Leu | Ser | His | Asn | Ala | Cys | Asn |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Lys | Leu | Ser | His | Pro | Met | Val | Ala | Ile | Pro | Glu | His | Glu | Ala | Leu |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Asp | Ser | Lys | Glu | Gln |     |     |     |     |     |     |     |     |     |     |
|     |     |     |     | 260 |     |     |     |     |     |     |     |     |     |     |

<210> 52

<211> 364

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 1737459CD1

<400> 52

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ser | Ala | Asn | Ser | Ser | Arg | Val | Gly | Gln | Leu | Leu | Leu | Gln | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Ser | Ala | Cys | Ile | Arg | Trp | Lys | Gln | Asp | Val | Glu | Gly | Ala | Ile | Tyr |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| His | Leu | Ala | Asn | Cys | Leu | Leu | Leu | Leu | Gly | Phe | Met | Gly | Gly | Ser |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Gly | Val | Tyr | Gly | Cys | Phe | Tyr | Leu | Phe | Gly | Phe | Leu | Ser | Ala | Gly |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Tyr | Leu | Cys | Cys | Val | Leu | Trp | Gly | Trp | Phe | Ser | Ala | Cys | Gly | Leu |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Asp | Ile | Val | Leu | Trp | Ser | Phe | Leu | Leu | Ala | Val | Val | Cys | Leu | Leu |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Gln | Leu | Ala | His | Leu | Val | Tyr | Arg | Leu | Arg | Glu | Asp | Thr | Leu | Pro |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Glu | Glu | Phe | Asp | Leu | Leu | Tyr | Lys | Thr | Leu | Cys | Leu | Pro | Leu | Gln |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Val | Pro | Leu | Gln | Thr | Tyr | Lys | Glu | Ile | Val | His | Cys | Cys | Glu | Glu |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Gln | Val | Leu | Thr | Leu | Ala | Thr | Glu | Gln | Thr | Tyr | Ala | Val | Glu | Gly |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Glu | Thr | Pro | Ile | Asn | Arg | Leu | Ser | Leu | Leu | Leu | Ser | Gly | Arg | Val |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Arg | Val | Ser | Gln | Asp | Gly | Gln | Phe | Leu | His | Tyr | Ile | Phe | Pro | Tyr |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Gln | Phe | Met | Asp | Ser | Pro | Glu | Trp | Glu | Ser | Leu | Gln | Pro | Ser | Glu |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Glu | Gly | Val | Phe | Gln | Val | Thr | Leu | Thr | Ala | Glu | Thr | Ser | Cys | Ser |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Tyr | Ile | Ser | Trp | Pro | Arg | Lys | Ser | Leu | His | Leu | Leu | Leu | Thr | Lys |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Glu | Arg | Tyr | Ile | Ser | Cys | Leu | Phe | Ser | Ala | Leu | Leu | Gly | Tyr | Asp |

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|                 |                         |                     |     |  |     |
|-----------------|-------------------------|---------------------|-----|--|-----|
|                 | 230                     |                     | 235 |  | 240 |
| Ile Ser Glu Lys | Leu Tyr Thr Leu Asn Asp | Lys Leu Phe Ala Lys |     |  |     |
|                 | 245                     |                     | 250 |  | 255 |
| Phe Gly Leu Arg | Phe Asp Ile Arg Leu Pro | Ser Leu Tyr His Val |     |  |     |
|                 | 260                     |                     | 265 |  | 270 |
| Leu Gly Pro Thr | Ala Ala Asp Ala Gly Pro | Glu Ser Glu Lys Gly |     |  |     |
|                 | 275                     |                     | 280 |  | 285 |
| Asp Glu Glu Val | Cys Glu Pro Ala Val Ser | Pro Pro Gln Ala Thr |     |  |     |
|                 | 290                     |                     | 295 |  | 300 |
| Pro Thr Ser Leu | Gln Gln Thr Pro Pro Cys | Ser Thr Pro Pro Ala |     |  |     |
|                 | 305                     |                     | 310 |  | 315 |
| Thr Thr Asn Phe | Pro Ala Pro Pro Thr Arg | Ala Arg Leu Ser Arg |     |  |     |
|                 | 320                     |                     | 325 |  | 330 |
| Pro Asp Ser Gly | Ile Leu Ala Ser Arg Ile | Pro Leu Gln Ser Tyr |     |  |     |
|                 | 335                     |                     | 340 |  | 345 |
| Ser Gln Val Ile | Ser Arg Gly Gln Ala Pro | Leu Ala Pro Thr His |     |  |     |
|                 | 350                     |                     | 355 |  | 360 |
| Thr Pro Glu Leu |                         |                     |     |  |     |

<210> 53

<211> 527

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 058201CD1

<400> 53

|                     |   |     |
|---------------------|---|-----|
| Met Glu Cys Leu Val | Ala Asp Lys Gln Asn Phe His Lys Ser Cys |     |
| 1                   | 5                                       | 10  |
| Phe Arg Cys His His | Cys Asn Ser Lys Leu Ser Leu Gly Asn Tyr |     |
|                     | 20                                      | 25  |
| Ala Ser Leu His Gly | Gln Ile Tyr Cys Lys Pro His Phe Lys Gln |     |
|                     | 35                                      | 40  |
| Leu Phe Lys Ser Lys | Gly Asn Tyr Asp Glu Gly Phe Gly His Lys |     |
|                     | 50                                      | 55  |
| Gln His Lys Asp Arg | Trp Asn Cys Lys Asn Gln Ser Arg Ser Val |     |
|                     | 65                                      | 70  |
| Asp Phe Ile Pro Asn | Glu Glu Pro Asn Met Cys Lys Asn Ile Ala |     |
|                     | 80                                      | 85  |
| Glu Asn Thr Leu Val | Pro Gly Asp Arg Asn Glu His Leu Asp Ala |     |
|                     | 95                                      | 100 |
| Gly Asn Ser Glu Gly | Gln Arg Asn Asp Leu Arg Lys Leu Gly Glu |     |
|                     | 110                                     | 115 |
| Arg Gly Lys Leu Lys | Val Ile Trp Pro Pro Ser Lys Glu Ile Pro |     |
|                     | 125                                     | 130 |
| Lys Lys Thr Leu Pro | Phe Glu Glu Glu Leu Lys Met Ser Lys Pro |     |
|                     | 140                                     | 145 |
| Lys Trp Pro Pro Glu | Met Thr Thr Leu Leu Ser Pro Glu Phe Lys |     |
|                     | 155                                     | 160 |
| Ser Glu Ser Leu Leu | Glu Asp Val Arg Thr Pro Glu Asn Lys Gly |     |
|                     | 170                                     | 175 |
| Gln Arg Gln Asp His | Phe Pro Phe Leu Gln Pro Tyr Leu Gln Ser |     |
|                     | 185                                     | 190 |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | His | Val | Cys | Gln | Lys | Glu | Asp | Val | Ile | Gly | Ile | Lys | Glu | Met |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Lys | Met | Pro | Glu | Gly | Arg | Lys | Asp | Glu | Lys | Lys | Glu | Gly | Arg | Lys |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Asn | Val | Gln | Asp | Arg | Pro | Ser | Glu | Ala | Glu | Asp | Thr | Lys | Ser | Asn |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Arg | Lys | Ser | Ala | Met | Asp | Leu | Asn | Asp | Asn | Asn | Asn | Val | Ile | Val |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Gln | Ser | Ala | Glu | Lys | Glu | Lys | Asn | Glu | Lys | Thr | Asn | Gln | Thr | Asn |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| Gly | Ala | Glu | Val | Leu | Gln | Val | Thr | Asn | Thr | Asp | Asp | Glu | Met | Met |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Pro | Glu | Asn | His | Lys | Glu | Asn | Leu | Asn | Lys | Asn | Asn | Asn | Asn | Asn |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |
| Tyr | Val | Ala | Val | Ser | Tyr | Leu | Asn | Asn | Cys | Arg | Gln | Lys | Thr | Ser |
|     |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |
| Ile | Leu | Glu | Phe | Leu | Asp | Leu | Leu | Pro | Leu | Ser | Ser | Glu | Ala | Asn |
|     |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     | 330 |
| Asp | Thr | Ala | Asn | Glu | Tyr | Glu | Ile | Glu | Lys | Leu | Glu | Asn | Thr | Ser |
|     |     |     |     | 335 |     |     |     |     | 340 |     |     |     |     | 345 |
| Arg | Ile | Ser | Glu | Leu | Leu | Gly | Ile | Phe | Glu | Ser | Glu | Lys | Thr | Tyr |
|     |     |     |     | 350 |     |     |     |     | 355 |     |     |     |     | 360 |
| Ser | Arg | Asn | Val | Leu | Ala | Met | Ala | Leu | Lys | Lys | Gln | Thr | Asp | Arg |
|     |     |     |     | 365 |     |     |     |     | 370 |     |     |     |     | 375 |
| Ala | Ala | Ala | Gly | Ser | Pro | Val | Gln | Pro | Ala | Pro | Lys | Pro | Ser | Leu |
|     |     |     |     | 380 |     |     |     |     | 385 |     |     |     |     | 390 |
| Ser | Arg | Gly | Leu | Met | Val | Lys | Gly | Gly | Ser | Ser | Ile | Ile | Ser | Pro |
|     |     |     |     | 395 |     |     |     |     | 400 |     |     |     |     | 405 |
| Asp | Thr | Asn | Leu | Leu | Asn | Ile | Lys | Gly | Ser | His | Ser | Lys | Ser | Lys |
|     |     |     |     | 410 |     |     |     |     | 415 |     |     |     |     | 420 |
| Asn | Leu | His | Phe | Phe | Phe | Ser | Asn | Thr | Val | Lys | Ile | Thr | Ala | Phe |
|     |     |     |     | 425 |     |     |     |     | 430 |     |     |     |     | 435 |
| Ser | Lys | Lys | Asn | Glu | Asn | Ile | Phe | Asn | Cys | Asp | Leu | Ile | Asp | Ser |
|     |     |     |     | 440 |     |     |     |     | 445 |     |     |     |     | 450 |
| Val | Asp | Gln | Ile | Lys | Asn | Met | Pro | Cys | Leu | Asp | Leu | Arg | Glu | Phe |
|     |     |     |     | 455 |     |     |     |     | 460 |     |     |     |     | 465 |
| Gly | Lys | Asp | Val | Lys | Pro | Trp | His | Val | Glu | Thr | Thr | Glu | Ala | Ala |
|     |     |     |     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |
| Arg | Asn | Asn | Glu | Asn | Thr | Gly | Phe | Asp | Ala | Leu | Ser | His | Glu | Cys |
|     |     |     |     | 485 |     |     |     |     | 490 |     |     |     |     | 495 |
| Thr | Ala | Lys | Pro | Leu | Phe | Pro | Arg | Val | Glu | Val | Gln | Ser | Glu | Gln |
|     |     |     |     | 500 |     |     |     |     | 505 |     |     |     |     | 510 |
| Leu | Thr | Val | Glu | Glu | Gln | Ile | Lys | Arg | Asn | Arg | Cys | Tyr | Ser | Asp |
|     |     |     |     | 515 |     |     |     |     | 520 |     |     |     |     | 525 |
| Thr | Glu |     |     |     |     |     |     |     |     |     |     |     |     |     |

<210> 54

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 5449893CD1

PB-0009-1 CIP

<400> 54

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ser | Gln | Ala | Gly | Ala | Gln | Glu | Ala | Pro | Ile | Lys | Lys | Lys | Arg |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Pro | Pro | Val | Lys | Glu | Glu | Asp | Leu | Lys | Gly | Ala | Arg | Gly | Asn | Leu |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Thr | Lys | Asn | Gln | Glu | Ile | Lys | Ser | Lys | Thr | Tyr | Gln | Val | Met | Arg |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Glu | Cys | Glu | Gln | Ala | Gly | Ser | Ala | Ala | Pro | Ser | Val | Phe | Ser | Arg |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Thr | Arg | Thr | Gly | Thr | Glu | Thr | Val | Phe | Glu | Lys | Pro | Lys | Ala | Gly |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Pro | Thr | Lys | Ser | Val | Phe | Gly |     |     |     |     |     |     |     |     |
|     |     |     |     | 80  |     |     |     |     |     |     |     |     |     |     |

<210> 55

<211> 302

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 282977CD1

<400> 55

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Asn | Val | Gln | Pro | Cys | Ser | Arg | Cys | Gly | Tyr | Gly | Val | Tyr | Pro |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Ala | Glu | Lys | Ile | Ser | Cys | Ile | Asp | Gln | Ile | Trp | His | Lys | Ala | Cys |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Phe | His | Cys | Glu | Val | Cys | Lys | Met | Met | Leu | Ser | Val | Asn | Asn | Phe |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Val | Ser | His | Gln | Lys | Lys | Pro | Tyr | Cys | His | Ala | His | Asn | Pro | Lys |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Asn | Asn | Thr | Phe | Thr | Ser | Val | Tyr | His | Thr | Pro | Leu | Asn | Leu | Asn |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Val | Arg | Thr | Phe | Pro | Glu | Ala | Ile | Ser | Gly | Ile | His | Asp | Gln | Glu |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Asp | Gly | Glu | Gln | Cys | Lys | Ser | Val | Phe | His | Trp | Asp | Met | Lys | Ser |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Lys | Asp | Lys | Glu | Gly | Ala | Pro | Asn | Arg | Gln | Pro | Leu | Ala | Asn | Glu |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Arg | Ala | Tyr | Trp | Thr | Gly | Tyr | Gly | Glu | Gly | Asn | Ala | Trp | Cys | Pro |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Gly | Ala | Leu | Pro | Asp | Pro | Glu | Ile | Val | Arg | Met | Val | Glu | Ala | Arg |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Lys | Ser | Leu | Gly | Glu | Glu | Tyr | Thr | Glu | Asp | Tyr | Glu | Gln | Pro | Arg |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Gly | Lys | Gly | Ser | Phe | Pro | Ala | Met | Ile | Thr | Pro | Ala | Tyr | Gln | Arg |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Ala | Lys | Lys | Ala | Asn | Gln | Leu | Ala | Ser | Gln | Val | Glu | Tyr | Lys | Arg |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Gly | His | Asp | Glu | Arg | Ile | Ser | Arg | Phe | Ser | Thr | Val | Ala | Asp | Thr |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Pro | Glu | Leu | Leu | Arg | Ser | Lys | Ala | Gly | Ala | Gln | Leu | Gln | Ser | Asp |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Val | Arg | Tyr | Thr | Glu | Asp | Tyr | Glu | Gln | Gln | Arg | Gly | Lys | Gly | Ser |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Pro | Ala | Met | Ile | Thr | Pro | Ala | Tyr | Gln | Ile | Ala | Lys | Arg | Ala |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Asn | Glu | Leu | Ala | Ser | Asp | Val | Arg | Tyr | His | Gln | Gln | Tyr | Gln | Lys |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| Glu | Met | Arg | Gly | Met | Ala | Gly | Pro | Ala | Ile | Gly | Ala | Glu | Gly | Ile |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Leu | Thr | Arg | Glu | Cys | Ala | Asp | Gln | Tyr | Gly | His | Gly | Tyr | Pro | Glu |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |
| Glu | Tyr |     |     |     |     |     |     |     |     |     |     |     |     |     |

<210> 56

<211> 193

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3178454CD1

<400> 56

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Asn | Thr | Ser | Phe | Ser | Asp | Ile | Glu | Leu | Leu | Glu | Asp | Ser | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Ile | Pro | Thr | Glu | Ala | Phe | Leu | Ala | Ser | Cys | Cys | Ala | Val | Val | Pro |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Val | Leu | Asp | Lys | Leu | Gly | Pro | Thr | Val | Phe | Ala | Pro | Val | Lys | Met |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Asp | Leu | Val | Glu | Asn | Ile | Lys | Lys | Val | Asn | Gln | Lys | Tyr | Ile | Thr |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Asn | Lys | Glu | Glu | Phe | Thr | Thr | Leu | Gln | Lys | Ile | Val | Leu | His | Glu |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Val | Glu | Ala | Asp | Val | Ala | Gln | Val | Arg | Asn | Ser | Ala | Thr | Glu | Ala |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Leu | Leu | Trp | Leu | Lys | Arg | Gly | Leu | Lys | Phe | Leu | Lys | Gly | Phe | Leu |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Thr | Glu | Val | Lys | Asn | Gly | Glu | Lys | Asp | Ile | Gln | Thr | Ala | Leu | Asn |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Asn | Ala | Tyr | Gly | Lys | Thr | Leu | Arg | Gln | His | His | Gly | Trp | Val | Val |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Arg | Gly | Val | Phe | Ala | Leu | Ala | Leu | Arg | Ala | Thr | Pro | Ser | Tyr | Glu |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Asp | Phe | Val | Ala | Ala | Leu | Thr | Val | Lys | Glu | Gly | Asp | His | Arg | Lys |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Glu | Ala | Phe | Ser | Ile | Gly | Met | Gln | Arg | Asp | Leu | Ser | Leu | Tyr | Leu |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Pro | Ala | Met | Lys | Lys | Gln | Met | Ala | Ile | Leu | Asp | Ala | Leu |     |     |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     |     |

<210> 57

<211> 174

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 4152861CD1

PB-0009-1 CIP

<400> 57

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ser | Asn | Gly | Tyr | Arg | Thr | Leu | Ser | Gln | His | Leu | Asn | Asp | Leu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Lys | Lys | Glu | Asn | Phe | Ser | Leu | Lys | Leu | Arg | Ile | Tyr | Phe | Leu | Glu |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Glu | Arg | Met | Gln | Gln | Lys | Tyr | Glu | Ala | Ser | Arg | Glu | Asp | Ile | Tyr |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Lys | Arg | Asn | Thr | Glu | Leu | Lys | Val | Glu | Val | Glu | Ser | Leu | Lys | Arg |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Glu | Leu | Gln | Asp | Lys | Lys | Gln | His | Leu | Asp | Lys | Thr | Trp | Ala | Asp |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Val | Glu | Asn | Leu | Asn | Ser | Gln | Asn | Glu | Ala | Glu | Leu | Arg | Arg | Gln |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Phe | Glu | Glu | Arg | Gln | Gln | Glu | Thr | Glu | His | Val | Tyr | Glu | Leu | Leu |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Glu | Asn | Lys | Met | Gln | Leu | Leu | Gln | Glu | Glu | Ser | Arg | Leu | Ala | Lys |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Asn | Glu | Ala | Ala | Arg | Met | Ala | Ala | Leu | Val | Glu | Ala | Glu | Lys | Glu |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Cys | Asn | Leu | Glu | Leu | Ser | Glu | Lys | Leu | Lys | Gly | Val | Thr | Lys | Asn |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Trp | Glu | Asp | Val | Pro | Gly | Asp | Gln | Val | Lys | Pro | Asp | Gln | Tyr | Thr |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Glu | Ala | Leu | Ala | Gln | Arg | Asp | Lys | Ile |     |     |     |     |     |     |
|     |     |     |     | 170 |     |     |     |     |     |     |     |     |     |     |

<210> 58

<211> 230

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3009303CD1

<400> 58

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Val | Gly | Val | Arg | Glu | Pro | Leu | Val | Phe | Arg | Val | Asp | Ala | Arg |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Gly | Ser | Val | Asp | Trp | Ala | Ala | Ser | Gly | Met | Gly | Ser | Leu | Glu | Glu |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Glu | Gly | Thr | Met | Glu | Glu | Ala | Gly | Glu | Glu | Gly | Glu | Asp | Gly |     |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Asp | Ala | Phe | Val | Thr | Glu | Glu | Ser | Gln | Asp | Thr | His | Ser | Leu | Gly |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Asp | Arg | Asp | Pro | Lys | Ile | Leu | Thr | His | Asn | Gly | Arg | Met | Leu | Thr |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Leu | Ala | Asp | Leu | Glu | Asp | Tyr | Val | Pro | Gly | Glu | Gly | Glu | Thr | Phe |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| His | Cys | Gly | Gly | Pro | Gly | Pro | Gly | Ala | Pro | Asp | Asp | Pro | Pro | Cys |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Glu | Val | Ser | Val | Ile | Gln | Arg | Glu | Ile | Gly | Glu | Pro | Thr | Val | Gly |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Gln | Pro | Val | Leu | Leu | Ser | Val | Gly | His | Ala | Leu | Gly | Pro | Arg | Gly |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Pro | Leu | Gly | Leu | Phe | Arg | Pro | Glu | Pro | Arg | Gly | Ala | Ser | Pro | Pro |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Gly | Pro | Gln | Val | Arg | Ser | Leu | Glu | Gly | Thr | Ser | Phe | Leu | Leu | Arg |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Glu | Ala | Pro | Ala | Arg | Pro | Val | Gly | Ser | Ala | Pro | Trp | Thr | Gln | Ser |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Phe | Cys | Thr | Arg | Ile | Arg | Arg | Ser | Ala | Asp | Ser | Gly | Gln | Ser | Ser |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Phe | Thr | Thr | Glu | Leu | Ser | Thr | Gln | Thr | Val | Asn | Phe | Gly | Thr | Val |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Gly | Glu | Thr | Val | Thr | Leu | His | Ile | Cys | Pro | Asp | Arg | Asp | Gly | Asp |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Glu | Ala | Ala | Gln | Pro |     |     |     |     |     |     |     |     |     |     |
|     |     |     |     | 230 |     |     |     |     |     |     |     |     |     |     |

<210> 59

<211> 915

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 4151935CD1

<400> 59

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Pro | Leu | Phe | Glu | Ala | Glu | Glu | Gly | Val | Leu | Ser | Arg | Thr | Gln |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Ile | Phe | Pro | Thr | Thr | Ile | Lys | Val | Ile | Asp | Pro | Glu | Phe | Leu | Glu |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Glu | Pro | Pro | Ala | Leu | Ala | Phe | Leu | Tyr | Lys | Asp | Leu | Tyr | Glu | Glu |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Ala | Val | Gly | Glu | Lys | Lys | Lys | Glu | Glu | Glu | Thr | Ala | Ser | Glu | Gly |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Asp | Ser | Val | Asn | Ser | Glu | Ala | Ser | Phe | Pro | Ser | Arg | Asn | Ser | Asp |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Thr | Asp | Asp | Gly | Thr | Gly | Ile | Tyr | Phe | Glu | Lys | Tyr | Ile | Leu | Lys |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Asp | Asp | Ile | Leu | His | Asp | Thr | Ser | Leu | Thr | Gln | Lys | Asp | Gln | Gly |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Gln | Gly | Leu | Glu | Glu | Lys | Arg | Val | Gly | Lys | Asp | Asp | Ser | Tyr | Gln |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Pro | Ile | Ala | Ala | Glu | Gly | Glu | Ile | Trp | Gly | Lys | Phe | Gly | Thr | Ile |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Cys | Arg | Glu | Lys | Ser | Leu | Glu | Glu | Gln | Lys | Gly | Val | Tyr | Gly | Glu |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Gly | Glu | Ser | Val | Asp | His | Val | Glu | Thr | Val | Gly | Asn | Val | Ala | Met |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Gln | Lys | Lys | Ala | Pro | Ile | Thr | Glu | Asp | Val | Arg | Val | Ala | Thr | Gln |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Lys | Ile | Ser | Tyr | Ala | Val | Pro | Phe | Glu | Asp | Thr | His | His | Val | Leu |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Glu | Arg | Ala | Asp | Glu | Ala | Gly | Ser | His | Gly | Asn | Glu | Val | Gly | Asn |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Ala | Ser | Pro | Glu | Val | Asn | Leu | Asn | Val | Pro | Val | Gln | Val | Ser | Phe |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Pro | Glu | Glu | Glu | Phe | Ala | Ser | Gly | Ala | Thr | His | Val | Gln | Glu | Thr |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Ser | Leu | Glu | Glu | Pro | Lys | Ile | Leu | Val | Pro | Pro | Glu | Pro | Ser | Glu |



|                 |                     |                         |     |  |     |
|-----------------|---------------------|-------------------------|-----|--|-----|
|                 | 245                 |                         | 250 |  | 255 |
| Glu Arg Leu Arg | Asn Ser Pro Val Gln | Asp Glu Tyr Glu Phe Thr |     |  |     |
|                 | 260                 |                         | 265 |  | 270 |
| Glu Ser Leu His | Asn Glu Val Val Pro | Gln Asp Ile Leu Ser Glu |     |  |     |
|                 | 275                 |                         | 280 |  | 285 |
| Glu Leu Ser Ser | Glu Ser Thr Pro Glu | Asp Val Leu Ser Gln Gly |     |  |     |
|                 | 290                 |                         | 295 |  | 300 |
| Lys Glu Ser Phe | Glu His Ile Ser Glu | Asn Glu Phe Ala Ser Glu |     |  |     |
|                 | 305                 |                         | 310 |  | 315 |
| Ala Glu Gln Ser | Thr Pro Ala Glu Gln | Lys Glu Leu Gly Ser Glu |     |  |     |
|                 | 320                 |                         | 325 |  | 330 |
| Arg Lys Glu Glu | Asp Gln Leu Ser Ser | Glu Val Val Thr Glu Lys |     |  |     |
|                 | 335                 |                         | 340 |  | 345 |
| Ala Gln Lys Glu | Leu Lys Lys Ser Gln | Ile Asp Thr Tyr Cys Tyr |     |  |     |
|                 | 350                 |                         | 355 |  | 360 |
| Thr Cys Lys Cys | Pro Ile Ser Ala Thr | Asp Lys Val Phe Gly Thr |     |  |     |
|                 | 365                 |                         | 370 |  | 375 |
| His Lys Asp His | Glu Val Ser Thr Leu | Asp Thr Ala Ile Ser Ala |     |  |     |
|                 | 380                 |                         | 385 |  | 390 |
| Val Lys Val Gln | Leu Ala Glu Phe Leu | Glu Asn Leu Gln Glu Lys |     |  |     |
|                 | 395                 |                         | 400 |  | 405 |
| Ser Leu Arg Ile | Glu Ala Phe Val Ser | Glu Ile Glu Ser Phe Phe |     |  |     |
|                 | 410                 |                         | 415 |  | 420 |
| Asn Thr Ile Glu | Glu Asn Cys Ser Lys | Asn Glu Lys Arg Leu Glu |     |  |     |
|                 | 425                 |                         | 430 |  | 435 |
| Glu Gln Asn Glu | Glu Met Met Lys Lys | Val Leu Ala Gln Tyr Asp |     |  |     |
|                 | 440                 |                         | 445 |  | 450 |
| Glu Lys Ala Gln | Ser Phe Glu Glu Val | Lys Lys Lys Lys Met Glu |     |  |     |
|                 | 455                 |                         | 460 |  | 465 |
| Phe Leu His Glu | Gln Met Val His Phe | Leu Gln Ser Met Asp Thr |     |  |     |
|                 | 470                 |                         | 475 |  | 480 |
| Ala Lys Asp Thr | Leu Glu Thr Ile Val | Arg Glu Ala Glu Glu Leu |     |  |     |
|                 | 485                 |                         | 490 |  | 495 |
| Asp Glu Ala Val | Phe Leu Thr Ser Phe | Glu Glu Ile Asn Glu Arg |     |  |     |
|                 | 500                 |                         | 505 |  | 510 |
| Leu Leu Ser Ala | Met Glu Ser Thr Ala | Ser Leu Glu Lys Met Pro |     |  |     |
|                 | 515                 |                         | 520 |  | 525 |
| Ala Ala Phe Ser | Leu Phe Glu His Tyr | Asp Asp Ser Ser Ala Arg |     |  |     |
|                 | 530                 |                         | 535 |  | 540 |
| Ser Asp Gln Met | Leu Lys Gln Val Ala | Val Pro Gln Pro Pro Arg |     |  |     |
|                 | 545                 |                         | 550 |  | 555 |
| Leu Glu Pro Gln | Glu Pro Asn Ser Ala | Thr Ser Thr Thr Ile Ala |     |  |     |
|                 | 560                 |                         | 565 |  | 570 |
| Val Tyr Trp Ser | Met Asn Lys Glu Asp | Val Ile Asp Ser Phe Gln |     |  |     |
|                 | 575                 |                         | 580 |  | 585 |
| Val Tyr Cys Met | Glu Glu Pro Gln Asp | Asp Gln Glu Val Asn Glu |     |  |     |
|                 | 590                 |                         | 595 |  | 600 |
| Leu Val Glu Glu | Tyr Arg Leu Thr Val | Lys Glu Ser Tyr Cys Ile |     |  |     |
|                 | 605                 |                         | 610 |  | 615 |
| Phe Glu Asp Leu | Glu Pro Asp Arg Cys | Tyr Gln Val Trp Val Met |     |  |     |
|                 | 620                 |                         | 625 |  | 630 |
| Ala Val Asn Phe | Thr Gly Cys Ser Leu | Pro Ser Glu Arg Ala Ile |     |  |     |
|                 | 635                 |                         | 640 |  | 645 |
| Phe Arg Thr Ala | Pro Ser Thr Pro Val | Ile Arg Ala Glu Asp Cys |     |  |     |
|                 | 650                 |                         | 655 |  | 660 |
| Thr Val Cys Trp | Asn Thr Ala Thr Ile | Arg Trp Arg Pro Thr Thr |     |  |     |

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|                 |                     |                         |     |  |     |
|-----------------|---------------------|-------------------------|-----|--|-----|
|                 | 665                 |                         | 670 |  | 675 |
| Pro Glu Ala Thr | Glu Thr Tyr Thr Leu | Glu Tyr Cys Arg Gln His |     |  |     |
|                 | 680                 |                         | 685 |  | 690 |
| Ser Pro Glu Gly | Glu Gly Leu Arg Ser | Phe Ser Gly Ile Lys Gly |     |  |     |
|                 | 695                 |                         | 700 |  | 705 |
| Leu Gln Leu Lys | Val Asn Leu Gln Pro | Asn Asp Asn Tyr Phe Phe |     |  |     |
|                 | 710                 |                         | 715 |  | 720 |
| Tyr Val Arg Ala | Ile Asn Ala Phe Gly | Thr Ser Glu Gln Ser Glu |     |  |     |
|                 | 725                 |                         | 730 |  | 735 |
| Ala Ala Leu Ile | Ser Thr Arg Gly Thr | Arg Phe Leu Leu Leu Arg |     |  |     |
|                 | 740                 |                         | 745 |  | 750 |
| Glu Thr Ala His | Pro Ala Leu His Ile | Ser Ser Ser Gly Thr Val |     |  |     |
|                 | 755                 |                         | 760 |  | 765 |
| Ile Ser Phe Gly | Glu Arg Arg Arg Leu | Thr Glu Ile Pro Ser Val |     |  |     |
|                 | 770                 |                         | 775 |  | 780 |
| Leu Gly Glu Glu | Leu Pro Ser Cys Gly | Gln His Tyr Trp Glu Thr |     |  |     |
|                 | 785                 |                         | 790 |  | 795 |
| Thr Val Thr Asp | Cys Pro Ala Tyr Arg | Leu Gly Ile Cys Ser Ser |     |  |     |
|                 | 800                 |                         | 805 |  | 810 |
| Ser Ala Val Gln | Ala Gly Ala Leu Gly | Gln Gly Glu Thr Ser Trp |     |  |     |
|                 | 815                 |                         | 820 |  | 825 |
| Tyr Met His Cys | Ser Glu Pro Gln Arg | Tyr Thr Phe Phe Tyr Ser |     |  |     |
|                 | 830                 |                         | 835 |  | 840 |
| Gly Ile Val Ser | Asp Val His Val Thr | Glu Arg Pro Ala Arg Val |     |  |     |
|                 | 845                 |                         | 850 |  | 855 |
| Gly Ile Leu Leu | Asp Tyr Asn Asn Gln | Arg Leu Ile Phe Ile Asn |     |  |     |
|                 | 860                 |                         | 865 |  | 870 |
| Ala Glu Ser Glu | Gln Leu Leu Phe Ile | Ile Arg His Arg Phe Asn |     |  |     |
|                 | 875                 |                         | 880 |  | 885 |
| Glu Gly Val His | Pro Ala Phe Ala Leu | Glu Lys Pro Gly Lys Cys |     |  |     |
|                 | 890                 |                         | 895 |  | 900 |
| Thr Leu His Leu | Gly Ile Glu Pro Pro | Asp Ser Val Arg His Lys |     |  |     |
|                 | 905                 |                         | 910 |  | 915 |

<210> 60  
 <211> 163  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 3012947CD1

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 Met Ala Leu Glu Gln Lys Glu Leu Asp Gln Glu Pro Gly Ala Gly  
 1 5 10 15  
 Leu Asp Ser Leu Ile Arg Thr Gly Ser Ser Cys Gln Asn Pro Gly  
 20 25 30  
 Cys Asp Ala Val Tyr Gln Gly Pro Glu Ser Asp Ala Thr Pro Cys  
 35 40 45  
 Thr Tyr His Pro Gly Ala Pro Arg Phe His Glu Gly Met Lys Ser  
 50 55 60  
 Trp Ser Cys Cys Gly Ile Gln Thr Leu Asp Phe Gly Ala Phe Leu  
 65 70 75  
 Ala Gln Pro Gly Cys Arg Val Gly Arg His Asp Trp Gly Lys Gln

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|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|     | 80  |     | 85  |     | 90  |     |     |     |     |     |     |     |     |     |
| Leu | Pro | Ala | Ser | Cys | Arg | His | Asp | Trp | His | Gln | Thr | Asp | Ser | Leu |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Val | Val | Val | Thr | Val | Tyr | Gly | Gln | Ile | Pro | Leu | Pro | Ala | Phe | Asn |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Trp | Val | Lys | Ala | Ser | Gln | Thr | Glu | Leu | His | Val | His | Ile | Val | Phe |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Asp | Gly | Asn | Arg | Val | Phe | Gln | Ala | Gln | Met | Lys | Leu | Trp | Gly | Val |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Ser | Glu | Asp | Gln | Gly | Thr | Gln | Glu | Trp | Glu | Ala | Asp | Gly |     |     |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     |     |

<210> 61

<211> 201

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 3009806CD1

<400> 61

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Glu | Asn | Val | Glu | Val | Phe | Thr | Ala | Glu | Gly | Lys | Gly | Arg | Gly |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Leu | Lys | Ala | Thr | Lys | Glu | Phe | Trp | Ala | Ala | Asp | Ile | Ile | Phe | Ala |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Glu | Arg | Ala | Tyr | Ser | Ala | Val | Val | Phe | Asp | Ser | Leu | Val | Asn | Phe |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Val | Cys | His | Thr | Cys | Phe | Lys | Arg | Gln | Glu | Lys | Leu | His | Arg | Cys |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Gly | Gln | Cys | Lys | Phe | Ala | His | Tyr | Cys | Asp | Arg | Thr | Cys | Gln | Lys |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Asp | Ala | Trp | Leu | Asn | His | Lys | Asn | Glu | Cys | Ser | Ala | Ile | Lys | Arg |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Tyr | Gly | Lys | Val | Pro | Asn | Glu | Asn | Ile | Arg | Leu | Ala | Ala | Arg | Ile |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Met | Trp | Arg | Val | Glu | Arg | Glu | Gly | Thr | Gly | Leu | Thr | Glu | Gly | Cys |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Leu | Val | Ser | Val | Asp | Asp | Leu | Gln | Asn | His | Val | Glu | His | Phe | Gly |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Glu | Glu | Glu | Gln | Lys | Asp | Leu | Arg | Val | Asp | Val | Asp | Thr | Phe | Leu |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Gln | Tyr | Trp | Pro | Ala | Gln | Ser | Gln | Gln | Phe | Ser | Met | Gln | Tyr | Ile |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Ser | His | Ile | Phe | Gly | Val | Ile | Asn | Cys | Asn | Gly | Phe | Thr | Leu | Ser |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Asp | Gln | Arg | Gly | Leu | His | Ser | Val | Gly | Arg | Lys | Asp | Leu | Ser | Pro |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Pro | Gly | Ala | Gly | Glu | Pro |     |     |     |     |     |     |     |     |     |
|     |     |     |     | 200 |     |     |     |     |     |     |     |     |     |     |

<210> 62

<211> 329

<212> PRT

<213> Homo sapiens

PB-0009-1 CIP

<220>

<221> misc\_feature

<223> Incyte ID No: 5578191CD1

<400> 62

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Glu | Asp | Ser | Glu | Ala | Val | Gln | Arg | Ala | Thr | Ala | Leu | Ile | Glu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |
| Gln | Arg | Leu | Ala | Gln | Glu | Glu | Glu | Asn | Glu | Lys | Leu | Arg | Gly | Asp |
|     |     |     |     | 20  |     |     |     |     | 25  |     |     |     |     | 30  |
| Thr | Arg | Gln | Lys | Leu | Pro | Met | Asp | Leu | Leu | Val | Leu | Glu | Asp | Glu |
|     |     |     |     | 35  |     |     |     |     | 40  |     |     |     |     | 45  |
| Lys | His | His | Gly | Ala | Gln | Ser | Ala | Ala | Leu | Gln | Lys | Val | Lys | Gly |
|     |     |     |     | 50  |     |     |     |     | 55  |     |     |     |     | 60  |
| Gln | Glu | Arg | Val | Arg | Lys | Thr | Ser | Leu | Asp | Leu | Arg | Arg | Glu | Ile |
|     |     |     |     | 65  |     |     |     |     | 70  |     |     |     |     | 75  |
| Ile | Asp | Val | Gly | Gly | Ile | Gln | Asn | Leu | Ile | Glu | Leu | Arg | Lys | Lys |
|     |     |     |     | 80  |     |     |     |     | 85  |     |     |     |     | 90  |
| Arg | Lys | Gln | Lys | Lys | Arg | Asp | Ala | Leu | Ala | Ala | Ser | His | Glu | Pro |
|     |     |     |     | 95  |     |     |     |     | 100 |     |     |     |     | 105 |
| Pro | Pro | Glu | Pro | Glu | Glu | Ile | Thr | Gly | Pro | Val | Asp | Glu | Glu | Thr |
|     |     |     |     | 110 |     |     |     |     | 115 |     |     |     |     | 120 |
| Phe | Leu | Lys | Ala | Ala | Val | Glu | Gly | Lys | Met | Lys | Val | Ile | Glu | Lys |
|     |     |     |     | 125 |     |     |     |     | 130 |     |     |     |     | 135 |
| Phe | Leu | Ala | Asp | Gly | Gly | Ser | Ala | Asp | Thr | Cys | Asp | Gln | Phe | Arg |
|     |     |     |     | 140 |     |     |     |     | 145 |     |     |     |     | 150 |
| Arg | Thr | Ala | Leu | His | Arg | Ala | Ser | Leu | Glu | Gly | His | Met | Glu | Ile |
|     |     |     |     | 155 |     |     |     |     | 160 |     |     |     |     | 165 |
| Leu | Glu | Lys | Leu | Leu | Asp | Asn | Gly | Ala | Thr | Val | Asp | Phe | Gln | Asp |
|     |     |     |     | 170 |     |     |     |     | 175 |     |     |     |     | 180 |
| Arg | Leu | Asp | Cys | Thr | Ala | Met | His | Trp | Ala | Cys | Arg | Gly | Gly | His |
|     |     |     |     | 185 |     |     |     |     | 190 |     |     |     |     | 195 |
| Leu | Glu | Val | Val | Lys | Leu | Leu | Gln | Ser | His | Gly | Ala | Asp | Thr | Asn |
|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Val | Arg | Asp | Lys | Leu | Leu | Ser | Thr | Pro | Leu | His | Val | Ala | Val | Arg |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Thr | Gly | Gln | Val | Glu | Ile | Val | Glu | His | Phe | Leu | Ser | Leu | Gly | Leu |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
| Glu | Ile | Asn | Ala | Arg | Asp | Arg | Glu | Gly | Asp | Thr | Ala | Leu | His | Asp |
|     |     |     |     | 245 |     |     |     |     | 250 |     |     |     |     | 255 |
| Ala | Val | Arg | Leu | Asn | Arg | Tyr | Lys | Ile | Ile | Lys | Leu | Leu | Leu | Leu |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
| His | Gly | Ala | Asp | Met | Met | Thr | Lys | Asn | Leu | Ala | Gly | Lys | Thr | Pro |
|     |     |     |     | 275 |     |     |     |     | 280 |     |     |     |     | 285 |
| Thr | Asp | Leu | Val | Gln | Leu | Trp | Gln | Ala | Asp | Thr | Arg | His | Ala | Leu |
|     |     |     |     | 290 |     |     |     |     | 295 |     |     |     |     | 300 |
| Glu | His | Pro | Glu | Pro | Gly | Ala | Glu | His | Asn | Gly | Leu | Glu | Gly | Pro |
|     |     |     |     | 305 |     |     |     |     | 310 |     |     |     |     | 315 |
| Asn | Asp | Ser | Gly | Arg | Glu | Thr | Pro | Gln | Pro | Val | Pro | Ala | Gln |     |
|     |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     |     |